

## Contents Volume 127

### Volume 127, Nos. 1-4, November 1995

On limit analysis of discs by a rigid finite element method <i>E. Pankiewicz</i>	1
Micromechanics of granular media. Part I: Generation of overall constitutive equation for assemblies of circular disks <i>R.I. Borja and J.R. Wren</i>	13
On the numerical solution of equilibrium problems for elastic solids with bounded tensile strength <i>M. Lucchesi, C. Padovani and G. Pasquinelli</i>	37
Computerized design and generation of double circular-arc helical gears with low transmission errors <i>F.L. Litvin and J. Lu</i>	57
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part I. Computation of flow around rectangular cylinders <i>N. Kondo and S. Yamada</i>	87
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an angle of attack <i>N. Kondo and S. Yamada</i>	99
Dynamic stability of spinning pre-twisted beams subject to axial pulsating loads <i>H.P. Lee</i>	115
Further results for enhanced strain methods with isoparametric elements <i>K. Arunakirinathar and B.D. Reddy</i>	127
A Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory <i>K.M. Liew and C.W. Lim</i>	145
A viscohyperelastic finite element model for rubber <i>A.R. Johnson, C.J. Quigley and C.E. Freese</i>	163
An operator splitting algorithm for coupled one-dimensional advection-diffusion-reaction equations <i>L.A. Khan and P.L.-F. Liu</i>	181

<b>A block conjugate gradient method applied to linear systems with multiple right-hand angles</b> <i>Y.T. Feng, D.R.J. Owen and D. Perić</i>	203
<b>An iteration algorithm for kinematic shakedown analysis</b> <i>Y.-G. Zhang</i>	217
<b>Open loop strategies for the control of a disk rolling on a horizontal plane</b> <i>Y. Yavin and C. Frangos</i>	227
<b>Formulation and analysis of variational methods for time integration of linear elastodynamics</b> <i>M. Cannarozzi and M. Mancuso</i>	241
<b>A procedure for efficient generation of solution adapted unstructured grids</b> <i>D.L. Marcum and N.P. Weatherill</i>	259
<b>An overlapping domain decomposition preconditioner for an anisotropic <math>h</math>-adaptive finite element method</b> <i>W. Rachowicz</i>	269
<b>Upper bound limit analysis using discontinuous velocity fields</b> <i>S.W. Sloan and P.W. Kleeman</i>	293
<b>A family of quadrilateral hybrid-Trefftz <math>p</math>-elements for thick plate analysis</b> <i>J. Jirousek, A. Wróblewski, Q.H. Qin and X.Q. He</i>	315
<b>Error indicators for mixed finite elements in 2-dimensional linear elasticity</b> <i>D. Braess, O. Klaas, R. Niekamp, E. Stein and F. Wobschal</i>	345
<b>A direct boundary integral method for the three-dimensional lifting flow</b> <i>L. Dragoş and A. Dinu</i>	357
<b>On the numerical modelling of convex particle assemblies with friction</b> <i>M. Ap. Tzaferopoulos</i>	371
<b>Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation, subgrid scale models, bubbles and the origins of stabilized methods</b> <i>T.J.R. Hughes</i>	387
<b>Author Index Volume 127</b>	403
<b>Subject Index Volume 127</b>	405
<b>Instructions to Authors</b>	411
<b>Contents Volume 127</b>	413

